

.EXCERPTA MEDICA Sec.5 Vol.11/4 General Pathology Apr 58

1112. THE PATHOGENESIS OF HAEMOLYTIC ANAEMIA OF TOXIC ORIGIN (Russian text) - Stepanskiy G. A. Med. Inst. Pavloff, Ryazan - ARKH. PATOL. 1956, 18/3 (30-36) Graphs 2 Tables 4 When rabbits poisoned with AsH 3 are given narcotic doses of chloral hydrate (0.25 g. per kg.) or sodium amytal (0.025 g. per kg.) the globular resistance is decreased much less than in control animals also poisoned with AsH3, 20-30 min. previously; it is particularly the resistance against the lowest percentage of NaCl solutions which is influenced. On the other hand, administration of Na amytal in doses of 0.1 g. per kg. increases the degree of lowering of globular resistance. Administration of 0.25 g. per kg. Na amytal 6 hr. after the poisoning when haemolysis begins, not only does not decrease the degree of lowering of globular resistance, but even increases it. 0.1 g. per kg. Na amytal induces in rabbits a condition very near anaesthesia: it delays the development of haemolytic anaemia, but also the regeneration of red cells. Administration of 0.5 g. per kg. chloral hydrate increases the development of haemolytic anaemia. Administration of 0.025 g. per kg. Na amytal 6 hr. after the poisoning caused in the first group; in 48 hr. in some animals retardation of the development of haemolytic anaemia, followed by enhancement; in the second group: in 24 hr. a marked effect on the development, accelerating and increasing globular destruction. Administration of 0.25 g. per kg. chloral hydrate to white mice 20-30 min. after poisoning them delayed the development of haemolytic anaemia; 6 hr. later, however, it enhanced it. Introduction of the narcotic substance soon after poisoning exerts a distinct influence on haemolytic anaemia and on erythropolesis during the whole period of illness. The fact that this action is exerted via the central nervous system was proved with the aid of trauma of the animals' heads or repeated knocking on the head; a distinct increase of erythrocytes and of the Hb content ensued; no variations of globular resistance. Cranial trauma in poisoned rabbits delays the development of haemolytic anaemia.

It is obvious that narcotic doses of chloral hydrate (0.5 g. per kg.) or of Na amytal (0.1 g. per kg.) do not interrupt the pathological reflex arc, but only modify the

trophic manifestations of the central nervous system.

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220008-4"

Kauchtschischwill .- Milan IVI. 51

STEPANSKIY, G.A., gvardii polkovnik med.sluzhby, prof.

在在各种的国际的国际的人,但是不是一个人,但是是一个人的人,但是是一个人的人,但是是一个人的人,但是是一个人的人,不是一个人,不是一个人,不是一个人,不是一个人

Methods of artificial respiration for military field conditions. Voen.-med.zhur. no.10:16-27 0 58. (MIRA 12:12)

(RESPIRATION, ARTIFICIAL
methods in military field cond. (Rus))
(MEDICINE, MILITARY AND NAVAL
artif.resp., methods in field cond. (Rus))

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220008-4"

LIDOV, I.P., dotsent; MESHKOV, V.V., kand.meditsinskikh nauk; STEPANSKIY, G.A., prof.

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The Great Medical Encyclopedia is a valuable aid for the military physician. Voen.-med.zhur. no.7:83-90 J1 '59. (MIRA 12:11) (MEDICINE--DICTIONARIES)

STEPANSKIY, G.A., prof., gvardii polkovnik meditsinskoy sluzbby

An important event in the life of the military medical service of the National People's Army of the German Democratic Republic. Voen.—med.zhur. no.10:91-92 0 '59.

(MILITARY MEDICINE, history)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220008-4"

STEPANSKIY, G.A., prof. (Moskva)

Manual methods of artificial respiration. Med.sestra 18 no.12:13-21
159. (RESPIRATION, ARTIFICIAL)

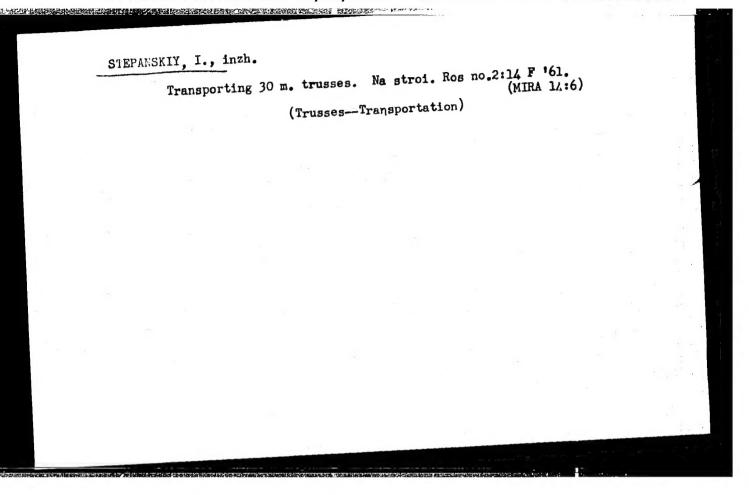
STEPANSKIY, Georgiy Avroamovich

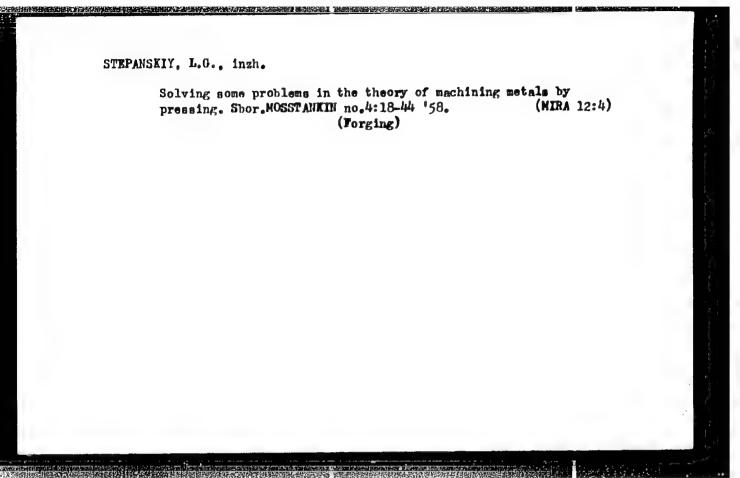
[Artificial respiration] Iskusstvennoe dykhenie. Moskva,
Medgiz, 1960. 161 p.
(RESPIRATION, ARTIFICIAL)

(RESPIRATION, ARTIFICIAL)

Oximes as theracoutic agents in poisonings with organic phespheric compounds (according to foreign data). Farm. toks. 24, no.3: 357-371 (Mirk 15:1)

1. II Moskovskiy gosudarstvennyy meditsinskiy institut imeni N.I.
Pirogova. (OXIMES_THERAPEUTIC USE)
(PHOSPHORUS ORGANIC COMPOUNDS_TOXICOLOGY)





STMPANSKIY, L.G., insh,

Determining stresses in upsetting pipes in containers. Vest. mash.

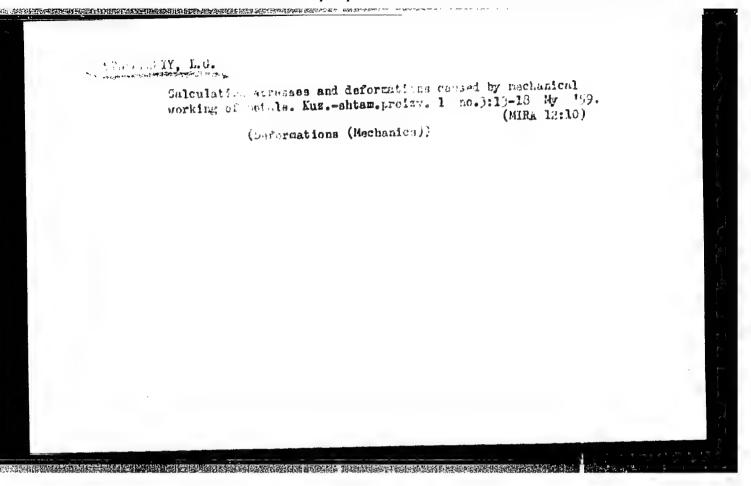
38 no.3:42-43 Mr '58.

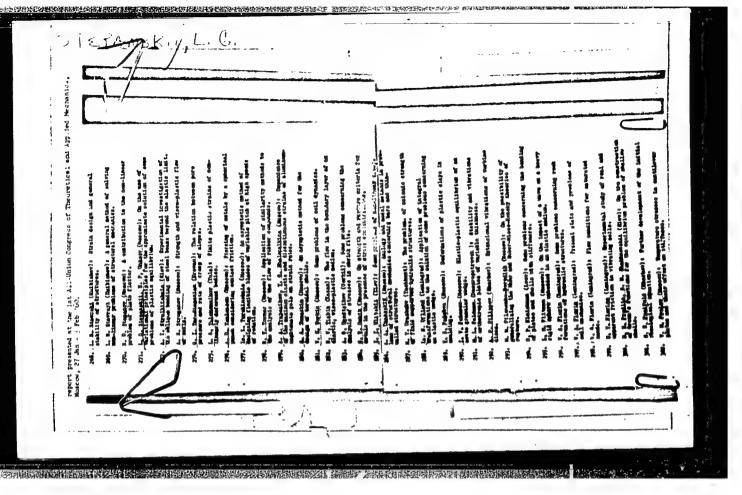
(Metals--Gold working)

(Metals--Gold working)

plactic deformation under conditions of manifold uneven compression in the contriner." Mos., Department of Technical Service and Information, 1959. 14 pp (State Committee of the Council of Ministers USSR on Automation and Fachine Building. Central Scientific account Inst of Technical Scientific and Machine Building

59





STEPANSKIY, L.G. (Moskva); UNKSOV, Ye.P. (Moskva)

Approximate solution of some problems of plane and axisymmetric plastic deformations. Izv. AN SSSR. Otd. tekh.nauk.Mekh. i mashinostr. no. 1:170-173 Ja-F '61. (MIRA 14:2) (Deformations (Mechanics))

UNKSOV, Ye.P.; STEPANSKIY, L.G...

Designing the process of pressure cladding of bimetal tubes.

Kuz.-sntam. proizv. 4 no.3:3-8 Mr 'o2. (MIRA 15:3)

(Metal cladding) (Tubes)

s/182/62/000/003/001/006 D040/D113

1.1310

AUTHORS:

Unksov, Ye. P. and Stepanskiy, L.G.

TITLE:

Calculation of the bimetal tube pressing process

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 3, 1962, 3-8

TEXT: The results of research on the pressing of bimetal tubes, conducted by the authors at TsNIITMASh in 1960, are given. The derived calculation formulas for determining the necessary dimensions of tube billets, the required pressing force and the press capacity are also presented. The experiments consisted in pressing 18 x 3, 18 x 2, 16 x 2 and 15 x 1.5 mm bimetal tubes clad with a 0.2 - 1.2 mm metal layer on the outside or inside, in a 400-t vertical hydraulic press. A container 40 mm in inner diameter was used. Armoo iron and steel grades 30612 (EI612), 1 x 18119T (1kh18N9T), 50 852 (EI852), 30 847 (EI847) and 45 were used. Billets were prepared by turning forged metal rods, pickling them to remove oxide films, assembling them into bi-layer billets by pressing, and finally heating them for pressing

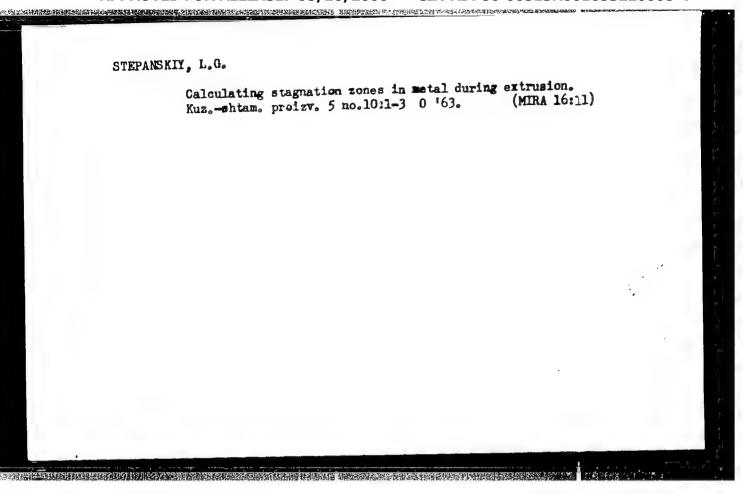
Card 1/2

Calculation of ...

S/182/62/000/003/001/005 D040/D113

in a barium chloride bath after preheating to 750-800°C in an induction furnace. The container was preheated, and a mixture of graphite with mathine oil used for lubricant on the container and die surfaces. The tube mandrel was lubricated with 20 A (20A) glass powder of the Gosudarstvennyy institut stekla (State Glass Institute) dissolved in commercial water glass. The fluid pressure in the cylinder and the time of movement of the press slide were oscillographed. The conditions resulting in a steady pressing process are given in formulas for cases when (1) metal of higher strength is in the external layer, and (2) is on the inside. The recommended sequence of calculation using these formulas is given. O.A. Yegorychev, A.A. Mishulin and A.A. Sokolova took part in the experiments. There are 7 figures, 1 table and 6 references: 4 Soviet and 2 non-Soviet-bloc. The English-language reference is: "Materials in Design Engineering", 1958, 38, no. 7, 91-93.

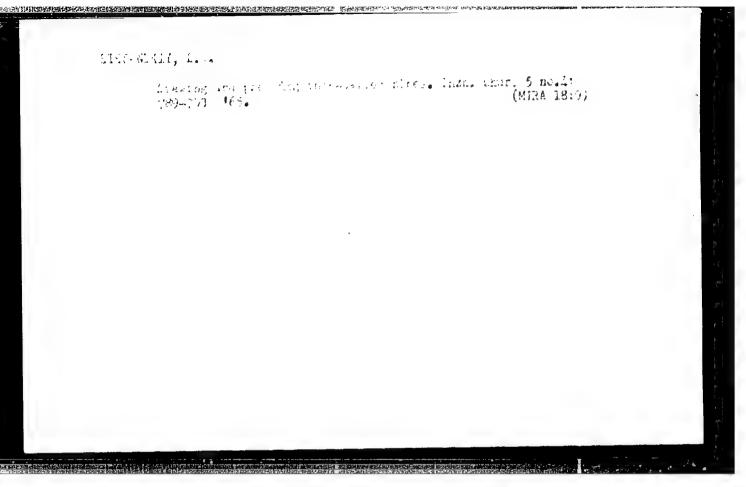
Car 1 2/2



STEPARSKIY, L.G., kand.teknn.nat.

Boundaries of a plastic deformation focus caused by extrusion.

Vest.mashinostr. 43 no.9:59-62 S '63. (MIRA 16:10)



SIMMIDAY, 7.

"Nomographic representation of dertain relations with six variables combined by connecting lines of the nomogram with a unary field.

SPARNIK MEDICHYCK PAGACI, Ostrava, Czechoslovakia, Vol. h, No. 5, 1958.

Monthly List of East European Accessions (FEAI), EC, Tol. , No. 9, September 1959. Unclassified.

STEPANSKY, Vaclav, prof., dr.

Representation of relations with eight to twenty-four variables by nomograms with several scale systems or binary fields united by crossed indexes with a system of directing lines. Shor VSB Ostrava 9 no.2: 183-226 *63.

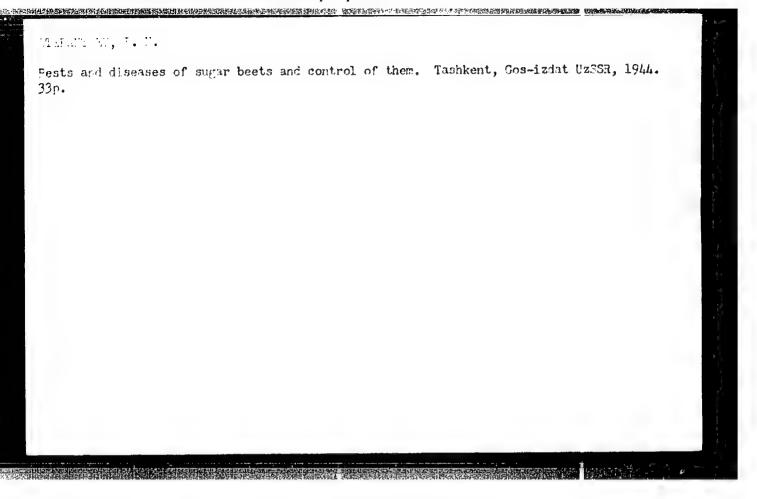
STEPANTSEV, A.; YASAKOV, A.; LIBERMAN, S.; MOISEYEVA, L.

Review the instructions for removing fet from carcasses. Mias. ind.

SSSR 29 no. 4:39-40 '58. (MIRA 11:8)

1. Michurinskiy myasokombinat.

(Packing houses)



Temperature conditions of the woolly aphids. Izv.Otd.est.nauk AN Tadzh.
SSR no.13:139-143 56. (MIBA 9:10)

l.Tadzhikakiy seliskekhezyzystvennyy institut.
(Plant lice)

CIA-RDP86-00513R001653220008-4 "APPROVED FOR RELEASE: 08/26/2000

Flant Diseases Diseases of Cultivated Plants. COUNTRY C.. TEGORY

No. 15924 ARS. JOUR. : REF ZHUR - BIOLOGIYA, NO. 4, 1959,

; Stepantsev, I.N. AUTHOR AS Maazhik SSR

: Cotton Wilt Diseases and Their Control. DIST. TITE

Izv. Otd. estestv. nauk AN TadzhSSR, 1957, No. 21, 89-107

ORIG. FUB. :

In contradiction of the established view-point on the nature of wilt in the ABSTRACT cotton plant, the author expresses the opinion that the cause of the wilting was not

fungi but special unfavorable meteorological conditions, and he considers the implantation of fungi on these plants to be can be proa secondary factor. Wilt duced by a high critical temperature (high-

er than 38.7 degrees) with low humidity and

1/3 CARD:

ZAHAKIN, A., polkovnik, kand.ped.nauk; STEPANTSEV, V., kapitan, kani.ped.nauk

Reconsider some submachine gun operations. Voen.vest. 38
no.11:68-71 N *58. (NIRA 11:12)

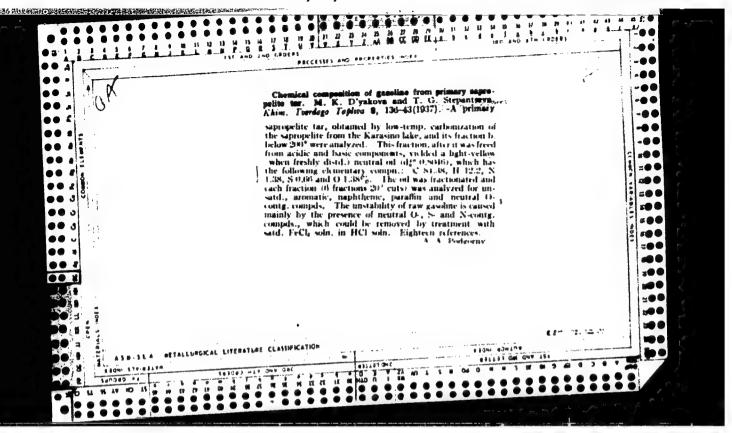
(Nachine-gun drill and tactics)

STEPANTSEV, Yu., kapitan 3-go ranga

How we try to raise the professional qualifications of seamen.

Komm.Vooruzh.Sil 2 no.2:57-60 Ja '62. (KIRA 15:3)

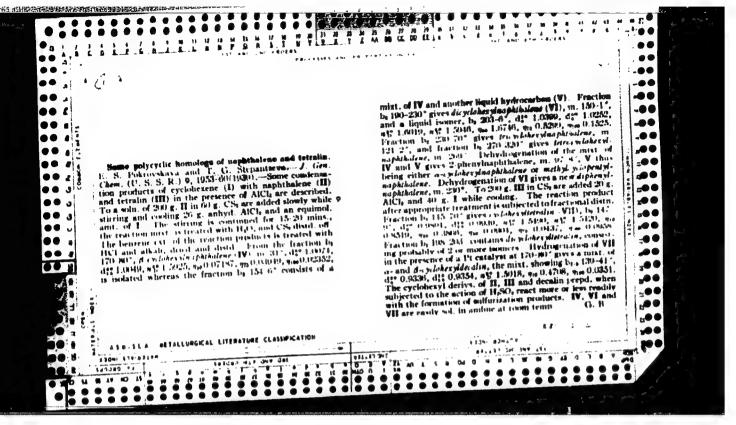
(Submarine boats)

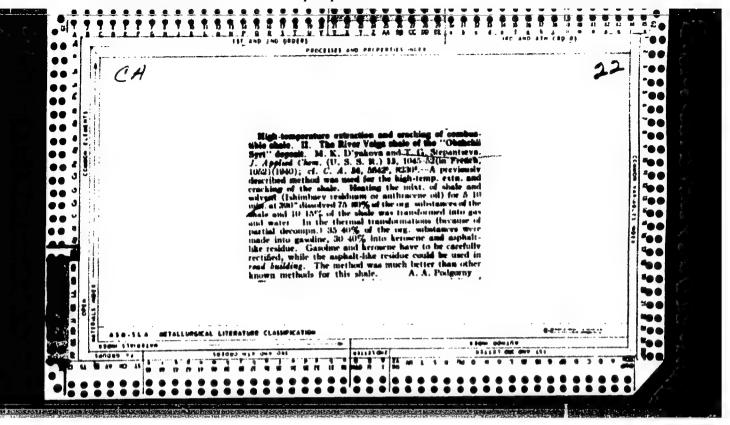


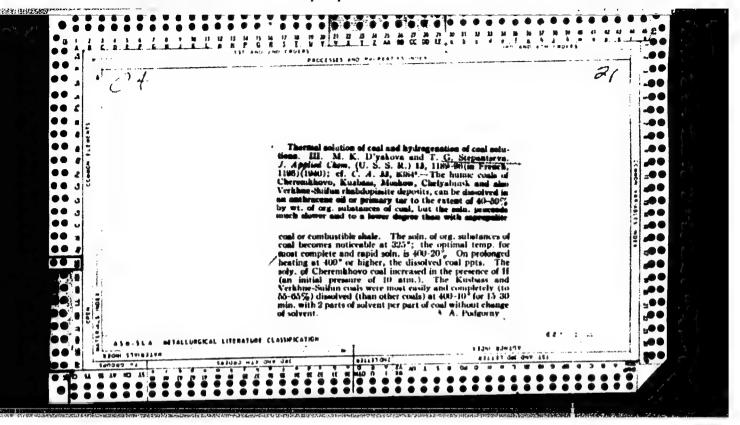
LOZOVOY, A. T., D'YARCYA, M. K., STEPARTSEVA, T. G.

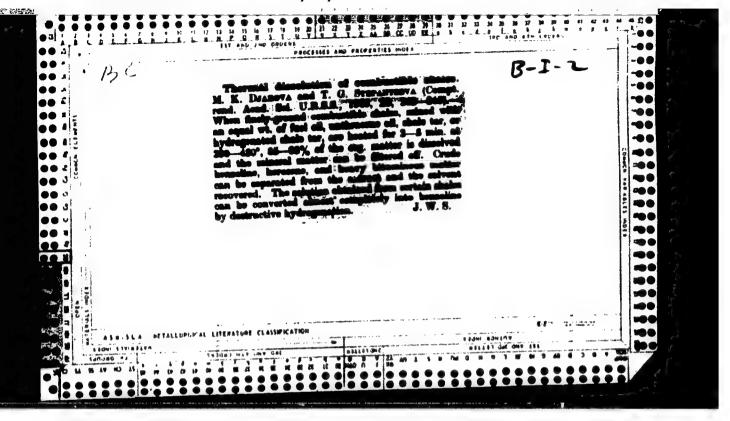
"On Certain Physical Constants of Mixtures of Hydrocarbons -- II," Zhur. Obshch. Knim., 9, No. 6, 1939. Received 14 July 1938.

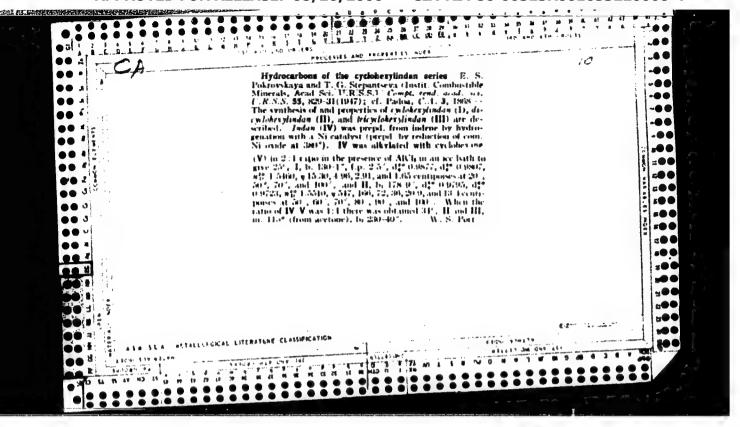
Report U-1517, 22 Oct 1951







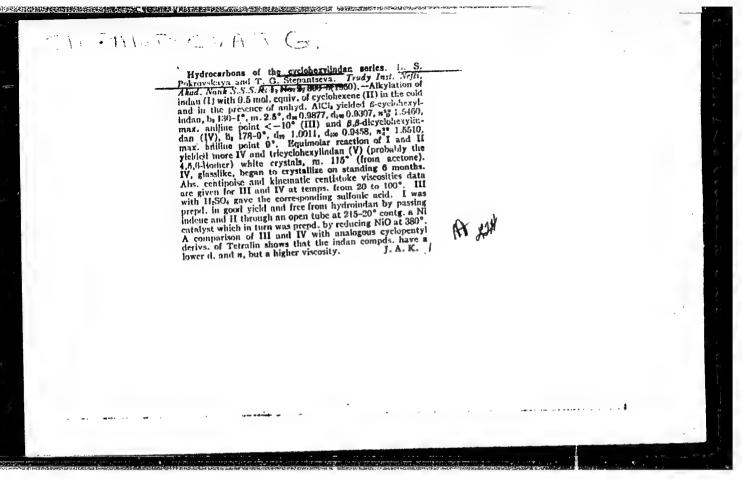




STEPANTSEVA, T. G., NAMETKIN, S. S. and POLKOVSKAYA, Ye. S.

"Hydrocarbons of the Naphthalene Series in Surakhany Petroleum," Dokl. AN SSSR, 67, No.5, 1949

Prepared naphthalene and its methylate homologues (beta-methylnaphthalene and 1,6-dimethylnaphthalene) from the kerosene fractions of light Surakhany oily petroleum by a method developed in Rumanian oil fields. dded picric acid to fractions of this highly aromatic kerosene (specific weight, $d^{20} = 0.8h32$ and coefficient of refraction, $n^{20} = 1.4680$) in an ether solution. Isolited the naphthalenes in subsequent refraction of stages, in temperature ranges of from 190° to 252° C -- naphthalene itself in the lowest ranges and 1,6-dimethylnapht alone in the highest. Pictates are by-products of the processes. Submitted 13 Jun 49.



STEPANYSAVA, T. G.

USSR/Chemistry - Petroleum

Jul 52

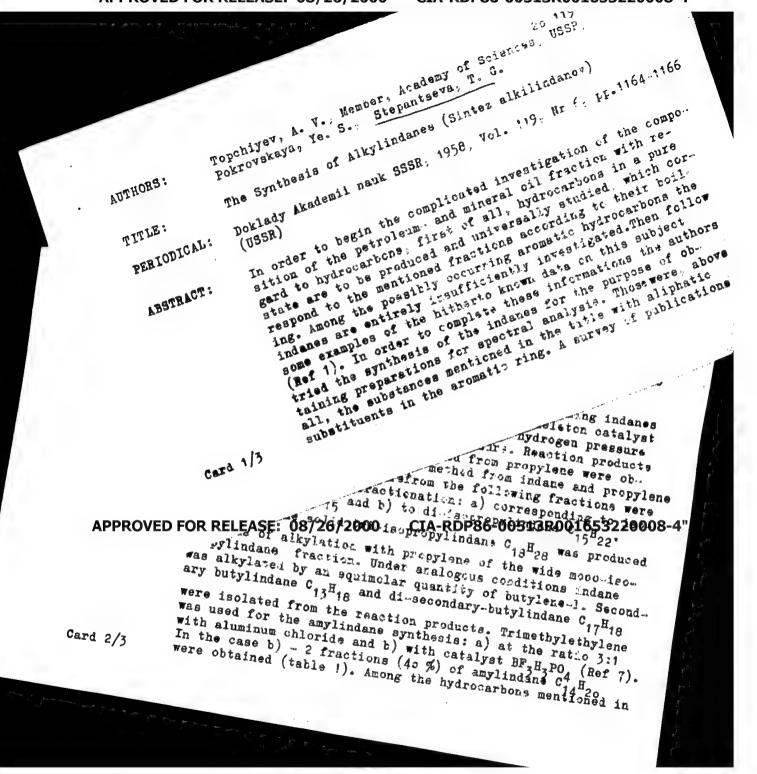
"The Content of Hydrocarbons of the Naphthalene Series in Maykop, Tuyma, and Dossor Crudes," Acad S. S. Nametkin (deceased), Ye. S. Pokrovskaya, T. G. Stepantseva.

"Trudy Inst Nefti" Vol 2, pp 10 - 16

大大元子,在1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,19

The kerosene fraction from Maykop crude (tertiary deposits) contains considerable quantities of naphthalene, 3-methylnaphthalene, 1,6 and 1,7-dimethylnaphthalenes, trimethylnaphthalenes, higher homologs of naphthalene, and other polycyclic hydrocarbons of a more complex structure. The kerosene fraction of Tuymazy crude (Devonian deposits of Second Baku) does not contain napthalene itself, but some of its homologs. These homologs are precipitated as picrates together with polycyclic sulfur compds when the picric acid method of sep is used. The kerosene fraction of Dossor crude (Jurassic deposits, Emba region) does not contain noticeable quantities of naphthalene or its homologs.

PA 243T5



TERENT YEVA, Yo.M.; SANIN, P.I.; STEPANTSEVA, T.G.; KUSAKOV, M.M.; SHIMANKO, N.A.; SIDORENKO, V.I.

Synthesis and investigation of the ultraviolet absorption spectra of hydrocarbons of the 1,1-diphenylethane series. Neftekhimiia 1 no.2:141-148 Mr-Ap *61. (MIRA 15:2)

1. Institut neftekhimicheskogo sinteza AN SSSR. (Hydrocarbons—Spectra)

KUSAKOV, M.M.; SHISHKINA, M.V.; PROKOF'YEVA, Ye.A.; KISLINSKIY, A.N.; SANIN, P.I.; TERENT'YEVA, Ye.M.; STEPANTSEVA, T.G.

Investigation of the oscillation spectra of hydrocarbons of the 1,1-diphenylethane series. Neftekhimia 1 no.3:317-328 My-Je '61. (MIRA 16:11)

1. Institut neftekhimicheskogo sinteza AN SSSR.

L 62083-65 EPF(c)/EMT(m) Pr-4 RM

ACCESSION NR: AP5016637

UR/0204/65/005/003/0320/0321 547.592.07

AUTHORS: Terent'yeva, Ye. M.; Sanin, P. I.; Stepantseva, T. G.; Klyukina, Z. P.

TITLE: Synthesis of polycyclic naphthenic hydrocarbons

SOURCE: Neftekhimiya, v. 5, no. 3, 1965, 320-321

TOPIC TAGS: hydrocarbon, polycyclic compound, synthesis property, cyclic hydrocarbon

ABSTRACT: In the present work, which is a continuation of an earlier investigation, nine polycyclic naphthenic hydrocarbons (not previously described in literature) were synthesized. Most of these hydrocarbons are the homologs of 1.1-dicyclohexyl ethane and are regarded as model hydrocarbons of the medium oil fractions. Some of them were obtained by hydrogenating the aromatic hydrocarbons described by E. M. Terent'yeva, P. I. Sanin, T. G. Stepantseva, M. M. Kusakov, N. A. Shimanko, and V. I. Sidorenko (Neftekhimiya, 1, No. 2, 141, 1961); the others were obtained by the condensation of styrol with mesitylol and cumene. From 20 to 50 g of hydrocarbon and 10% of a nickel catalyst were hydrogenated at 200C and at the initial hydrogen pressure of 130 atm. After each experiment, the autoclave was cooled to no material temperature, the pressure was lowered to normal, the product removed, and the autoclave washed with alcohol which was then added to the product. Subsequently, Cord 1/2

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the catalyst and alcohol were separated from the product, which was dried over calcium chloride and tested by the formolite reaction which indicates the absence of aromatic hydrocarbons. Finally, it was purified by multiple distillation. The characteristics of the bi-and tricyclic hydrocarbons obtained are tabulated. Orig. art. has: 1 table.

ASSOCIATION: Institut neftekhimicheskogo sintema im. A. V. Topchiyeva AN SSSR (Institute of Petrochemical Synthesis, AN SSSR)

SUBMITTED: 04May64

ENCL: 00

SUB CODE: OC,GC

NO REF SOV: 005

OTHER: 001

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T-6

SILPARITOR V. V. E.

USSR/Pharmacology. Pharmacognosy. Toxicology -

Roentgen Counteracting Drugs.

Referat Zhur - Biologiya, No 16, 1957, 71753 Abs Jour

: Kharkevich, D.A., Krylova, N.B., Stepantsov, V.I. Author

Inst

The Use of New Pharcacological Procedures in Arteriography. Title

: Biul. ekspeim. biol. i meditsiny, 1955, 10, No 11, 77-79 Orig Pub

It was demonstrated by tests on an isolated rabbit ear that the vascular constriction due to Sergosine (I) ad-Abstract

ministration is largely connected with its peripheral effect. Rabbits and cats under ether anaesthesia were injected with 3-4 ml of a mixture of I with a 1-3% solution of papaverine into the aorta. Good arteriograms were obtained. The use of Na-nitrite (0.5 ml of 10% solution) was less effective. Histamine cannot be used in arteriography, because it raises vascular permeability and produces a diffusion of the contrast material into the surrounding tissues. Cardiotrast (50% solution) pro-

- 68- duces a slight spasm of the vessels.

Card 1/1

CIA-RDP86-00513R001653220008-4

STEFANTSOV, V. I.

STEPANTSOV. V. I. - "The Effect of Strain in a Head-Pelvis Direction on the Arterial Flow in the Thigh Muscles (Experimental Morphological Investigations)."

First Leningrad Medical Inst imeni Academician I. P. Pavlov. Leningrad. 1955.

(Dissertation for the Degree of Candidate in Biological Sciences)

So; Knizhnava Letopis' No 3, 1956

CIA-RDP86-00513R001653220008-4

USSR/Humen and Animal Morphology. Circulatory System

S-2

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 31299

Author

SINGER SECTION OF THE PROPERTY OF THE PROPERTY

: Ketimes G.S., Stepentsov V.I.

Inst Title : Not Given : Method of Evaluation of Some Data Which Characterizes the

Capacity of a Vasctler Channel.

Orig Fub : Izv. Akad. pod. neuk RSFSR, 1957, vyp. 84, 175-176

Abstract: For the objective negativement of the thickness of a vescular channel on a roomtgenogram a direct line is drawn that intersects the image of all of the vessels that proceed through the director of the organ in the given instance. The number of vessels is computed, and with the ocular micrometer the director of the lumen of each of them ismeasured; after this, the area of the transverse section of the vessels is found. Considering the area of the director of the organ itself, one can obtain an idea of the thickness of the vescular network and of the capacity of the vescular channel.

Card : 1/1

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STEPANTSOV, V.I. (Leningrad, K.44, pr. K. Marksa, 63, kv.11)

Dynamics of the formation of collateral circulation after section of the femoral artery. Arkh.anat.gist.i embr. 37 no.11:65-75 H (MIRA 13:4)

1. Kafedra normal'noy anatomii (saveduyushchiy - prof. M.G. Prives)
1-go Leningradekogo meditsinskogo instituta im. akademika I.P.
Pavlova i kafedra biologicheskikh disteiplin (saveduyushchiy - prof.
N.V. Zimkin) Krasnoznamennego Voyennego instituta im. Lenina.

(FEMORAL ARTERY physiol.)

STEPANTSOV, V.I. (Leningrad, K-44, prospekt Karla Marksa, 65, kv. 35)

Morphological tranformations in the arterial bed of the femoral muscles following overloading in the direction of the head ani pelvis. Arkh. anat. gist. embr. 39 no. 10:58-65 0 160. (MIRA 14:2)

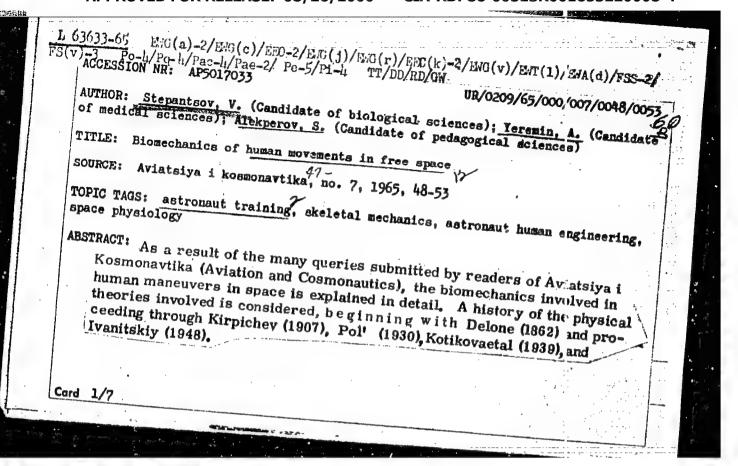
1. Kafedra normal'noy anatomii (zav. - prof. M.G. Privet) I
Leningradskogo meditsinskogo instituta imeni akademika I.P.
Pavlova i kafedra biologicheskikh distsiplin (nachal'nik Pavlova i kafedra biologicheskikh distsiplin (nachal'nik pavlova i kafedra biologicheskikh distsiplin (nachal'nik (nachal'nik pavlova i kafedra biologicheskikh distsiplin (nachal'nik pavlova i kafedra biolog

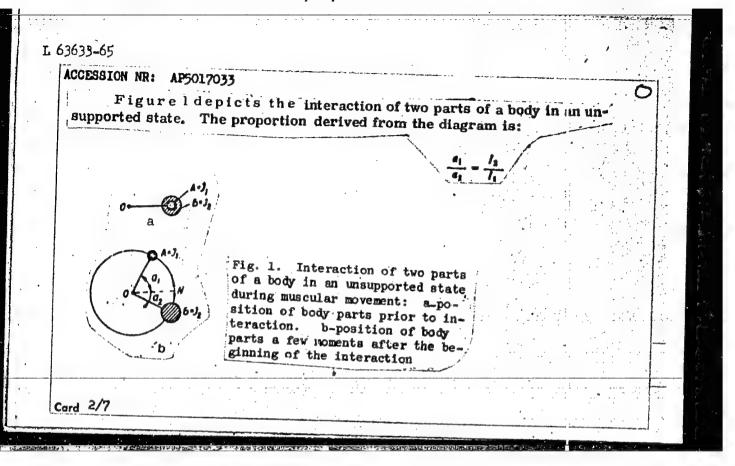
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VOLUMERIN, YU.M.; YAZDOVSKIY, V.I.; GENIM, A.M.; VASIL'YEV, P.V.;
GYURDZHIAN, A.A.; GURCVSKIY, N.N.; GORBOV, F.D.; SERYAPIN,
A.D.; BELAY, V.Ye.; BAYEVSKIY, R.M.; ALTUKHOV, G.V.;
KOPANEV, V.I.; KAS'YAN, I.I.; YEGOROV, A.D.; SIL'VESTROV,
M.M.; SIL-PURA, S.F.; TERENT'YEV, V.G.; KRYLOV, YU.V.; FOMIN,
A.G.; USHAKOV, A.S.; DEGTYAREV, V.A.; VOLOVICH, V.G.;
STEPARTSOV, V.I.; FYASHIKOV, V.I.; YAZDOVSKIY, V.I.; KASHIN,
P.S., tekhn. red.

[First space flights of man; the scientific results of the redicobiological research conducted during the orbital flights of the spaceships "Vostok" and "Vostok-2"]Pervye kosmicheskie polety cheloveka; nauchny rezul'taty medikobiologicheskikh issledovanii, provedennykh vo vremia orbital'nykh poletov korablei-sputnikov "Vostok" i "Vostok-2." Moskva, Izd-vo Akad. nauk SSSR, 1962. 202 p. (MIRA 15:11) (SPACE MEDICINE) (SPACE FLIGHT TRAINING)



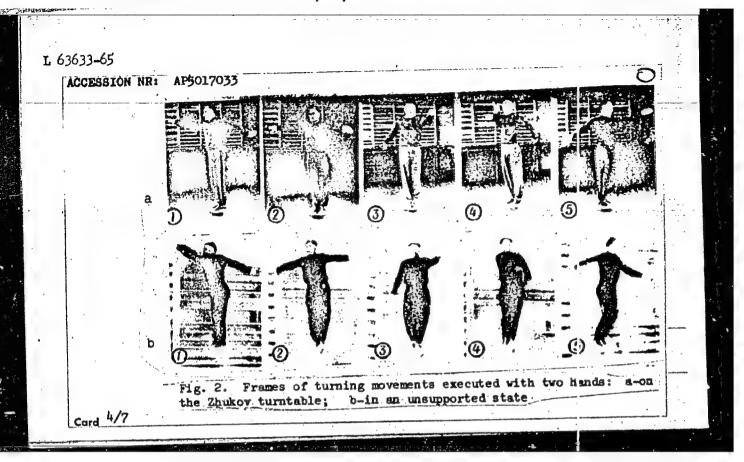


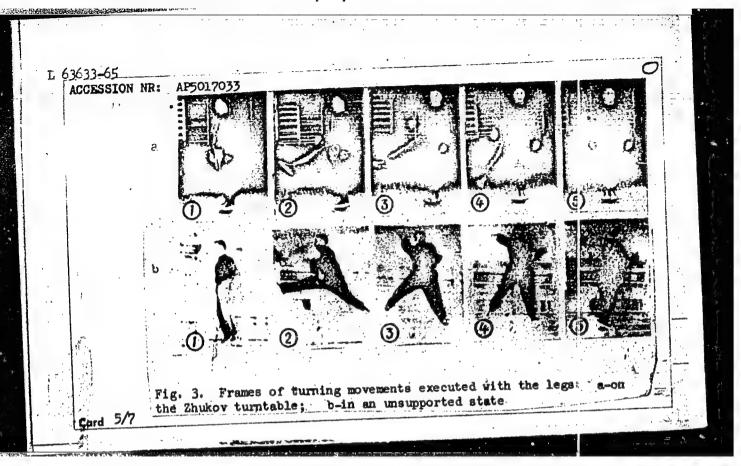
L 63633-65

ACCESSION NR: AP5017033

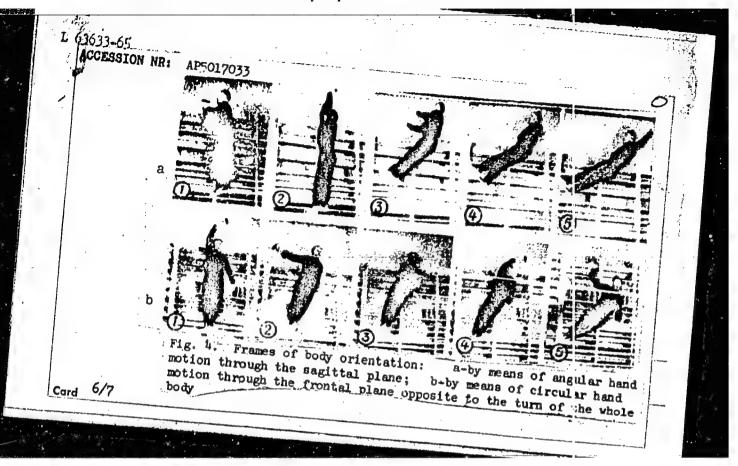
Thus the angular rate of interacting body parts is inversely proportional to their moments of inertia. Figures 2, 3, and 4 show the types of exercises employed to facilitate adaptation to an unsupported condition. The results of studies involving the exercises shown in the figures lead to the conclusion that man can quickly and accurately orient his body position in a free-space condition without having to use any mechanical means. However, propulsion devices located on the back a: the center of gravity and at the shoulder level will most likely be used, and their effectiveness will be enhanced by means of the physical training procedures described. In any case, the article points out the necessity for special terrestrial training procedures to prepare man for free-space maneuvers. The Zhukov turntable is regarded as the best means of conditioning turning movements in space. Also useful for conditioning free-space maneuvers are acrobatics and especially swimming exer: ises combined with parabolic flights in aircraft where actual free-space operating procedures can be practiced and perfected. The author asserts that others will follow Leonov into space to build manned orbital stations, live on them, and ultimately participate in Moon, Mars, and Venus missions.

Card_3/7





"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220008-4



I. (3633-65
ACCESSION NR: AP5017033
Orig. art. has: 32 figures.
ASSOCIATION: none
SUBMITTED: OO ENCL: OO SUB CODE: AA, LS
NR REF SOV: OOO OTHER; OOO ATD PRESS: 4035-F

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220008-4 TO JOSEC (k) -2/EWA(d) AP6000255 SOURCE CODE: UR/0209/65/000/011/0036/0038 II/DD/RD/GW AUTHOR: Stepantsov, V. (Candidate of biological sciences); Yeremin, A. (Candidate of medical sciences); Kolosov, I. ORG: None TITLE: Orientation in unsupported space SOURCE: Aviatsiya i kosmonavtika, no. 11, 1965, 36-38 TOPIC TAGS: weightlessness, cosmonaut training, space flight simulation ABSTRACT: In response to letters from readers requesting more details on an article published earlier, the authors present details on the moments of inertia of separate parts of the human body in various positions in unsupported space. A description is given of experiments performed to gain more information on the motor activity of man subjected to a longer (average 30 sec) period of weightlessness, created by an aircraft flying in a Kepler parabola. These experiments confirmed earlier theoretical and experimental data on the different methods of orientation (turning) of man by internal forces around three mutually perpendicular axes of the body. Some of the procedures used by the subject for turning in different.

ACC NR: AP6000255				
support (pushing with direction. Pulling pof displacement, with which should be take	ibed. A study was also the hands or pulling) roved to be the simple in minimal twisting on into account in selections in weightlessness	for aimed displast, most convenient the body. Someting the scheme	cement in a present, and most accuse other considera and the design of	cribed rate metho tions indivi- 1 figure.
UB CODE: 22, 06 /	SUBM DATE: none/	ATD PRESS: 4/	64	[08]
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ACC NR: AT7011644

SOURCE CODE: UR/0000/66/000/000/0001/0004

AUTHOR: Stepantsov, V. I.; Yeremin, A. V.

ORG: none

TITLE: Biodynamics of extravehicular activities

SOURCE: International Astronautical Congress. 17th, Madrid, 1966.

Doklady. no. 6. 1966. Osnovy biomekhaniki cheloveka v bezopornom polozhenii, 1-4

TOFIC TAGS: EVA, astronaut orientation, spatial orientation, extravehicular movement, manned space flight

ABSTRACT:

Extravehicular activity during weightlessness requires a total readjustment of coordination and reallocation of motor effort, and the modification of existing motor habits or the development of new ones. EVA away from the ship and without interaction with objects outside the body requires even more drastic modification of motor activity. Early attempts at the solution of the problem of maneuvering the body under these conditions by Kirpichev (1907) and Pol! (1930) are cited. Maneuvering the unsupported, weightless Cord 1/3

ACC NR: AT7011644

次数**以通路的高级的线数**地面的数据通过数据的数据数据数据数据数据数据数据数据数据数据数据

body by movements of the extremities depends primarily on the quantitative characteristics of interaction of the different parts of the body, and on anatomical considerations. The authors have computed the moments of inertia of the body and various extremities (head, arms, and legs) in various positions (bent, straight) and combinations for a man 168--172 cm tall weighing 70-75 kg. The authors propose the following maneuvers: 1) to rotate the body around its long axis, both arms are swung in a plane perpendicular to the axis of rotation. One such movement turns the body 60°. The arms are returned to the starting position through a plane parallel to the axis of rotation. Leg movements (initial position with the legs spread wide) are even more efficient, turning the body 160° or 90°. "Yawing" and "pitching" rotations (about a transverse or a front-to-back axis through the body's center of gravity) are accomplished by circular movements of both arms in the sagittal plane, or of one arm in the frontal plane. Initial results indicate that a properly trained person can maneuver his body into any desired position quickly and accurately without the use of any outside equipment (thrusters, etc.) or support.

Card 2/3

ACC NR: AT7011644

Orig. art. hag; 1 figure and 1 table. ATD PRESS: 5098-F/
SUB CODE: 06,22 / SUBN DATZ: none

STIPANTSOVA, L.P.; TIKHONOVA, L.P.; IVANOVA, T.K.

Histological changes in tissue during refrigeration, autoclave, and implantation according to Filatov's method. Arkh. pat., Hoskva 15 no. 1:50-53 Jan-Feb 1953. (CLML 24:2)

1. Of the Department of Histology-(Heat -- Prof. L. I. Falin), Smolensk Medical Institute.

STEPANTSOVA, L.P.

Effect of ionizing radiation on soft dental tissues and the paradontium. Stomatologia 37 no.5:22-30 S-0 '58 (MIRA 11:11)

1. Is kafedry gistologii (zav. - prof. L.I. Falin) i kafedry rentgenologii (zav. - prof. I.A. Shekhter) Moskovskogo meditsinskogo stomatologicheskogo instituta (dir. - dotsent G.M. Beletskiy).

(RADIATION---PHYSIOLOGICAL EFFECT)

(TEETH---DISEASES)

(GUMS---DISEASES)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220008-4"

STEPANTSOVA, N.P.; GELLER, B.E.; KARELINA, S.L.

Investigating the process of dyeing triacetate silk with active dyes. Izv.vys.ucheb.zav.; tekh.tekst. prom. no.5:83-87 464.

(MIRA 18:1)

1. Tashkentskiy tekstil'nyy institut.

Studying the process of gains and the state with various classes of water-solable deer, process, and each text text text process, nc.3:113-119 165.

1. Tashkentskiy text text count.

STEPANTSOVA, N.P.; GELLER, B.E.

Studying the fixing of water-soluble dyes by acetate fibers during printing. Izv. vys. ucheb. zav.; tekh. teks. prom. no.6:92-98 '65. (MIRA 19:1)

1. Tashkentskiy tekstil'nyy institut. Submitted March 30, 1965.

STUKOLOV, V.T.; STEPANUSHKIN, G.G.

Servicing locomotives at the Kropachevo Depot. Elek. i tepl. tiaga 2 no.10:25-27 0 158. (MIRA 11:11)

1. Nachal'nik lokomotivnogo otdela Zlatoustovskogo otdeleniva Yuzhno-Ural'skoy dorogi (for Stukolov). 2. Nachal'nik depo Kropachevo Yuzhno-Ural'skaya doroga (for Stepanushkin). (Electric locomotives--Maintance and repair)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220008-4"

STEPANVSKIY, Yu.P. [Stepanova'kyi, IU.F.]

Little Lorentz group and equations of free massless fields with arbitrary spin. Ukr. fiz. zhur. 9 no.11:1165-1168 N 164 (MIRA 18:1)

1. Fiziko-tekhnicheskiy institut AN UkrESR, Kiyev.

CHEST SERVICE SERVICE

S'epanyan, A. A. "Late complications in wounds of the pleura of genshout origin," (Report), Frudy III Zakavkansk. s"yezda khiruryov, Yerevan, 1948 (on cover: 1949), p. 525-526

SO: 4-521.0, 17 Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

3.4 YA., A. A. Siuciay Ashingsheelmejo shiinokokkin kalima. Shomaki nduch.
Smakev (Terrenosk. namek.-isslet. IN-T ortopelki i vocatanovit. Heirurgii),
1, 100, J. 125-27.

So: Letopis, No. 32, 150.

MALIYEV, Yuriy Nikolayevich; KULIKOVSKIY, L.F., doktor tekhn.
nauk, retsenzent; STEPANYAN, A.A., kand. tekhn. nauk,
obshchestv. red.; PETROPOL STEPANYAN, red.; PETROPOL STEPANYAN,
V.M., tekhn.red.

[Electronic calculating machines] Elektronnye matematicheskie mashiny. Kuib; shev, Kuibyshevskoe knizhnoe izd-vo, 1963. 217 p. (MIRA 17:2)

STEPANYAN, A. A. Cand Tech Sci -- (diss) "Study of ferrodynamic galvanometers with rotating magnetic fields in the circuit of although surrent compensator)." Kuybyshev, 1959. 19 pp with discrete (Min of Higher and Secondary Specialized Education RSFSR. Kuybyshev Industrial Inst im V. V. Kuybyshev), 151 copies (KL, 48-59, 115)

-34-

STEPANYAN, A.A., assistent

Ferrodynamic galvanometer with a rotating magnetic field in the circuit of an a.c.balancer. Izv.vys.ucheb.zav.; prib. no.3:8-14 '59. (MIRA 13:4)

1. Kuybyshevskiy industrial'nyy institut im. V.V.Kuybysheva. Rekomendovana kafedroy avtomaticheskikh i izmeritel'nykh ustroystv. (Galvanometer)

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3,2410

AUTHOR:

Stepanyan, A. A.

TITLE':

The cubic meson telescope of the Grimean astrophysical observatory

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1961, 80, alstract 8B388 ("Izv.

Krymsk, astrofiz. observ., no. 24, 1960, 313-319, English summary)

A cubic telescope for continuous registration of the hard component TEXT: of cosmic rays is described. The telescope consists of three horizontal rows of FC -60 (08-60) Geiger-Müller counters connected in a coincidence circuit and separated from each other by 10 cm of lead for absorption of the soft component. Continuous registration of cosmic particles makes heavy demands on the operating stability of the telescope and the useful life of the sounders. Their useful life was lengthened by means of quenching of discharge in the sounters with the aid of a special electronic circuit. Quenching of discharge made it possible to reduce discharge time by a factor of 5-6 and lengthen the useful life of the counters to 10-12 months. A short description is given of the electronic circuits used in the set-up. L. Landsberg

[Abstracter's note: Complete translation]

Card 1/1

30267

3.7430 (1482,1559) 3.9120 (1121,1395)

F3/035/61/000/010/019/034 A001/A101

AUTHORS:

Stepanyan, A.A., Vladimirskiy, B.M.

TITLE:

Investigation of effects of magnetic storms in cosmic radiation, I.

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1961, 59, abstract 10A421 ("Izv.Krymsk.astrofiz.observ.", 1960, v.24, 320-339)

On the basis of observational data from 3 stations: Hearstmonceaux TEXT: (England, λ 50°5, nucleon and meson components), Moscow (USER, λ 55°5, nucleon and meson components) and Crimean Astrophysical Observatory, AS USSR (A 450, meson component) during the period from July 1957 to July 1959, 38 cases were analyzed of intensity drop of dosmic radiation, Forbush-type, associated with magnetic storms with sudden commencements. A tendency was discovered to the growth of amplitude of the effect with increasing amplitude of sudden commencement, at expense of the cases with preliminary disturbed geomagnetic field. Changes in the hardness of variation spectrum are analyzed, as well as the observed asymmetry in setting-in intensity drops with time. A correlation was discovered between

Card 1/2

BELOUSOV, V.M., inzh.; VIDMANOV Yu.I., inzh.; STEPANYAN, A.A., inzh.
UVAROV, G.A., kand.tekhn.nauk; FEDOROV, V.N., Inzh.; SHESTAKOV,
B.I., kand.tekhn.nauk

Measuring devices and methods for measuring pulsations in boiler furnace systems. Isv. vys. ucheb. sav.; energ. 4 no.3:49-52 Mr ¹61. (MIKA 14:3)

1. Kuybyshevskiy industrial'nyy institut imeni V. V. Kuybysheva. Predstavlena kafedroy tepolenergeticheskikh ustanovok.

(Transducers) (Boilers)

3909h 5/169/62/000/006/076/093 5228/5304

3,7310

ALUHOR:

OF LUNES

Some questions of the theory of the effect of magnetic Stepanyan, A. A. storms in cosmic rays (Forbush effect)

PERTONICAL:

Referativnyy zhurnal, Geofizika, no. 6, 1962, 13, abstract 6665 (Izv. Krymsk. astrofiz. observ., 25, 1961,

The author investigates the effect in cosmic rays when the earth strikes a corpuscular flow, having the form of a magnetized earth strikes a corpuscular ilow, naving the form of a magnetized shell. The flow is ejected over a wide solid angle; its angular shell. The flow is ejected over a wide solid engle; its angular shell of the plane of the elliptic is 900. The force lines of the flare in the plane of the elliptic is 100 emerge from, and regular magnetic field frozen into the flow emerge from, and regular magnetic field frozen into the flow emerge from a plasma is Vert to, the sun's active region. Within the cavity the plasma is turbulent and represents separate clounds with a chaotic field. The earth's capture by a corpuscular flow leads to a reduction in the intensity of cosmic rays, and the variation spectrum is described by the expression:

Card 1/3

Some questions of ...

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$$\frac{\text{oD}(E)}{\text{D}(E)} = \frac{2}{\pi^2} \int_0^{\pi/2} \arcsin\left(1 - \frac{E_0}{E \cos \theta}\right) \cos \theta \cdot d\theta$$

Here \bot is the particle energy, $E_0=300$ Hl, H and l are the field's intensity and the thickness of the regular field's layer, and θ is the angle between the direction of the vector of the velocity of primary particle movement and the perpendicular to the field intensity vector. It is shown that the spectrum's character does not change when there are irregularities in the regular field. Estimates are made of the ratios of the Forbush-effect amplitudes for various secondary cosmic-ray components. The relation of the amplitude of Forbush reductions to the local time (the effect's anisotropy) is calculated for hard and neutron components. It is shown

Card 2/3

s/035/62/000/006/021/064 A001/A101

Stepanyan, A. A.

AUTHOR:

Investigation of Forbush effect. II. Energy spectrum of variations.

TITLE:

Relation of spectrum to the form of drop and duration of effect

PERIODICAL:

Referativnyy zhurnal, Astronomiya i Geodeziya, no. 6, 1962, 58, abstract 6A432 ("Izv. Krymsk. astrofiz. observ.", 1961, v. 26,

136 - 143, English summary)

Characteristics of Forbush effect were studied on the basis of data from stations of cosmic radiation. The method used was determination of global intensity of the nucleon and meson components of cosmic radiation. Spectrum of variations during the Forbush effect was investigated using characteristics obtained from the global intensity. It is shown that spectra of variations must satisfy the requirement of the constancy of energy dependence, both from case to case and during the period of intensity drop. An approximate dependence of duracase and during the period of intensity drop. An approximate dependence of duration on amplitude has been found. Under some assumptions (see § 5) it turns out that the form of duration-versus-amplitude relation is determined by spectrum of

Card 1/2

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653220008-4" STEPANYAN, A.A.; BLADIMTRSKIY, B.M.

Emission of high-energy particles by the sun. Astron.shur. 38 no.3:439-442 My-Je 161. (MIRA 14:6)

1. Krymskaya astrofizicheskaya observatoriya AN SSSR. (Solar radiation)

43156 · 5/203/62/002/003/004/021 1023/1250

ATITITION:

Stopanyan, A.A.

TITLE:

Some properties of anisotropy during the Forbush-effect

PERIODICAL: Geomagnetizm i Aeronomiya, v.2, no.3, 1962, 443-452

The anisotropy of decreases in the cosmic ray intensity during sudden magnetic storms is analyzed. Data of 14 cases collected in the course of an IGY were used. The amplitudes were obtained for the anisotropy of the nucleonic and hard components before the sudden beginning, during the storm, and in the course of several days after it. The analysis confirms that the anisotropy of the Forbush decrease is a consequence of the diurnal effect. Conclusions: 1) The anisotropy during a Forbush effect is explained by the increase of the diurnal variations. 2) In some cases a change in the phase and a decrease in the amplitude of the diurnal variations was observed after the beginning of a magnetic storm (in 3 out of 14 cases).

3) The spectrum of the diurnal variation during a Forbush effect is on the average the same as in absence of a magnetic storm. The

Card 1/2

S/203/62/002/003/004/021 1023/1250

Some properties of anisotropy ...

average ratio of the amplitudes of the neutron and the hard compononts is 1.31±0.08, but the differences between individual cases can be large: from 0.85±0.12 up to 1.60±0.13. 4) The anisotropy amplitude reaches its maximum, as a rule, during the first 24 hours after the sudden beginning of the magnetic storm. 5) The spectral properties of the anisotropy during a Forbush effect can be explained by Dorman's theory, but with a slight change in the meaning of the cutoff momentum Pm. There are 4 tables, 5 figures, 23 references. The most important references: D. Cattani, M. Galli, P. Randi. Nuovo cimento, 1961, 21, 923. Lyl. Dorman. Variatsii kosmicheskikh luchei (Variations in the cosmic

rays), Gostekhteoretizdat, Moscow, 1957.

ASSOCIATION:

Erymskaya sstrofizicheskay observatoriya Akademii nauk SSSR (The Crimoan Astrophysical Observatory, Academy

of Sciences of the USSR)

SUBMITTED:

February 10, 1962

Card 2/2

EULLROVSKIY, T.F.; STETANIAN, A.A.; HERNOZ, S.Ye.; SENIN, B.A.

Device for measurement of drilling rates, lowering and hoisting of tools, and well-shaft drilling. Izv.vys.ucheb.zav.; neft' i gaz 5 no.12:87-92 '62. (MIRA 17:4)

1. Kuybyshevskiy politekhnicheskiy institut imeni Kuybysheva.

45128

S/712/62/027/000/011/015 A001/A101

AUTHOR:

2 1420

Stepanyan, A. A.

TITLE:

The total number of high energy particles ejected during the flare

of May 4, 1960

SOURCE:

Akademiya nauk SSSR, Krymskaya astrofizicheskaya observatoriya.

Izvestiya. v. 27, 1962, 178 - 181

TEXT: On May 4, 1960, between 10.15 and 11.05 UT a flare of class 2+ took place on the Sun. The flare was accompanied by increasing intensity of cosmic rays. Analyzing the observational data and assuming independence of diffusion coefficient of coordinates and time, the author determines the following quantities: The diffusion coefficient D = 0.7 x 10^{23} cm².sec⁻¹ and the time of ejection Δt = 7.5 min. For the total flux of particles the expression Q $\approx 10^{31}$ I_{max} is derived, where I_{max} is the maximum flux in a small solid angle (approximately 1 steradian). This yields Q = 10^{33} particles. The total energy of particles with E > 1.5 Bev is approximately 10^{30} erg. The conclusion is drawn that the particles were ejected during the initial stage of the flare; this is of im-

Card 1/2

The total number of high energy particles... S/712/62/027/000/011/015
A001/A101

portance for the theories of cosmic ray generation during flares. The diffusion path was determined to amount to $(5-7) \times 10^{12}$ cm. There is 1 figure.

SUBMITTED: May 1961

Card 2/2

1,5129 S/712/62/027/000/012/015 A001/A101

AUTHOR:

Stepanyan, A. A.

TITLE:

On the problem of the variation spectrum during the Forbush effect

SOURCE:

Akademiya nauk SSSR. Krymskaya astrofizicheskaya observatoriya.

Ivestiya, v. 27, 1962, 182 - 193

TEXT: The problem of spectrum of variations is very important in studying the modulation of cosmic ray intensity, since the spectrum indicates the mechanism of effect. In the present article the author considers the spectrum of the Forbush effect. Several mathematical expressions for the Forbush effect spectrum are presented and discussed, but only three of them are theoretically calculated and compared with experimental data; 1) The spectrum of the type $\frac{1}{\pi} \arccos 1 - \frac{P_0}{P}$; 2) $\frac{\delta D}{D} = \frac{P_0}{P}$, and 3) the spectrum of variations generated by the effect of an electrical field. In order to compare the calculations with experimental data, the ratios of amplitudes of effect on various instruments were calculated, such as neutron monitor at sea level, neutron monitor at a

Card 1/2

On the problem of the variation spectrum...

S/712/62/027/000/012/015 A001/A101

level of 680 g/cm², cubic telescope at sea level, and the primary flux for the given parameters of the variation spectrum. Calculations were carried out for geomagnetic latitudes 50° and 0°. The comparison of experimental data with theoretical ones shows that the spectrum of the electrical field type yields the best agreement. Although the existence of an interplanetary electrical field is not very probable, the question of modulation of intensity by the heliocentric field remains still open. There are 2 tables.

SUBMITTED: May 1961

Card 2/2

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\$/169/62/000/008/069/090 E032/E114

AUTHOR:

Stepanyan, A.A.

TITLE:

On the spectrum of variations during the Forbush effect

PERIODICAL: Referativnyy zhurnal, Geofizika, no.8, 1962, 11, abstract 8 G 84. (Izv. Krymsk. astrofiz. observ.,

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v.27, 1962, 182-193)

Reports calculations of the relations between cosmic-TEXT: ray variations at different recording instruments during a Forbush effect. Three types of spectra are considered:

1) $(1/\pi) \cos^{-1}(1 - P_0/P)$; 2) $\delta D/D = P_0/P$; and 3) the spectrum of variations appearing under the action of an electric field. Comparison of the results with published experimental data shows that the spectrum of the form Po/P is not in agreement with these data. The best agreement is obtained for the spectrum of the electric-field type.

Abstractor's note: Complete translation.

Card 1/1

S/712/62/028/000/020/020 E032/E314

AUTHOR: Ste

Stepanyan, A.A.

TITLE:

Connection between the characteristics of the Forbush

effect and chromospheric flares

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SOURCE:

Akademiya nauk SSSR. Krymskaya astrofizicheskaya

observatoriya. Izvestiya. v. 28. 1962. 324 - 330

IGY data and the results of other investigations are TEXT: used to investigate the correlation between the Forbush effect and chromospheric flares. The surface of the Sun was divided into three zones (90°E - 10°E, 10°E - 10°W, 10°W - 90°W) in order to investigate the amplitude and duration of the Forbush effect on the flare coordinates. The average values of the Forbush-effect Forbush effects unidentiparameters were then found for each zone. fied with flares were assigned to the central zone, if they were large, and to the peripheral zone if they were small. This was done in such a way that the differences between the average characteristics of the zones were a minimum. It was found as a result of this procedure that the Forbush-effect parameters were independent of the coordinates of the flare (to within 20 - 25%). Next, an Card 1/2

S/712/62/028/000/020/020 E032/E314

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analysis was made of the relation between the flare duration and the amplitude of the decrease in the cosmic-ray intensity during the Forbush effect. It was found that flares of longer duration were more likely to give rise to a Forbush effect than flares of short duration. The correlation coefficient characterizing the connection between the amplitude of the Forbush-effect decrease and the duration of flares is of the order of 0.8 ± 0.14 . In the case of magnetic storms occurring in close succession, the Forbush effect tends to become suppressed if the flares responsible for the successive storms do not occur in the same active regions. There are 1 figure and 4 tables.

SUBMITTED: December, 1961

Card 2/2

. VIADIMIRVISKY, A. A. STEPANYAN

the Fundamental Features of Forbush Effect and on the Small Effects
of the Flaces

Flaces

Floort shouldted for the 8th Intl. Conf. on Cosmic Rays (IUPAP), Jaipur India.

STEPANYAN, A.A.

Width of corpuscular streams responsible for the diurnal effect in cosmic rays. Izv. Krym. astrofiz. obser. 29:126-130 '63. (MIRA 16:10)

AZATYAN, V.D.; YESAYAN, G.T.; STEPANYAN, A.A.

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Sukfonic acid esters. Report No. 12: -Chloroethyl esters of sulfonic acids. Izv. AN Arm. SSR. Khim. nauki 16 no.5: 461-464 '63. (MIRA 17:1)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

L 32100-65 ENT(1)/ENG(v)/FCC/EEC-4/EEC(t)/ENA(h)

Po-4/Pe-5/Pq-4/P1-4/Pae-2/Peb

ACCESSION NR: AR5005742

8/0169/64/000/011/4015/4015

SOURCE: Ref. zh. Geofiz., Abs. 12A89

14

AUTHORS: Stepanyan, A. A.

TITLE: On the mechanism of diurnal variation in cosmic rays

CITED SOURCE: Izv. Krymsk. estrofiz. observ., v. 32, 1964, 56-66

TOPIC TAGS: cosmic ray, diurnal variation

TRANSLATION: It is shown that the main characteristics of the diurnal effect in cosmic rays - the variation spectrum and the latitudinal variations of the first and second harmonics - can be explained by assuming that the diurnal variation is due to the action of an electric field; the absence of variation in the low-energy region (1--10 GeV) can then be attributed to the costderive of t

Oucase eromes aren tansom Frates (Mitchel. S Binsuslais) SUB CODE: AA Card 1/1 of Italianal changes in the first and second borm oils of or opposition that AM SSSA der. the . d no.12:1016-20th 1 1 4 (Mill 18:2) APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653220008-4" L 3088-66 EWT(1)/EWA(h)
ACCESSION NR: AP5018216

UR/0119/65/000/007/0015/0016 621.317.771681.142.6

AUTHOR: Stepanyan, A. A. (Candidate of technical sciences); Chukhontsev, Y. M. (Engineer)

TITLE: Static functional device

SOURCE: Priborostroyeniye, no. 7, 1965, 15-16

TOPIC TAGS: function generator 15

ABSTRACT: The principle of operation is explained of a new function generator which produces all trigonometric functions of a phase-shift angle between two voltage vectors of the same frequency. The function generator is based on three multipliers which develop: (1) a scalar product of two voltage vectors, (2) a vector product of two voltage vectors, and (3) a scalar modulus product of two voltage vectors. An experimental model of a new 50-cps phase meter (FV-162) uses the above principle. Orig. art. has: 1 figure, 11 formulas, and 1 table.

ASSOCIATION: " none ...

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ACC NR: AR5018139

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AUTHOR: Stepanyan, A.A.

ORG: none

TITIE: Mechanism of the diurnal variation in cosmic rays

SOURCE: Ref. zh. Issledovaniye kosmicheskogo prostranstva. Otdel'nyy vypusk, Abs.

7.62.254

REF SOURCE: Izv. Krymsk. astrofiz. observ., v. 32, 1964, 56-66

TOPIC TAGS: cosmic ray measurement, particle, particle scatter, diurnal variation

TRANSIATION: A theory on the diurnal solar variation in cosmic rays, developed in 1955 by L.I. Dorman, is compared with experimental data obtained by the universal network of stations during the International Geophysical Year. The author points out that in order to coordinate a theory with experimentally obtained data, it is necessary to keep in mind two factors: 1) the redistribution of trajectories of cosmic ray particles in a geomagnetic field, leading to varied decreases in the variation amplitudes recorded at various geomagnetic latitudes. Thus, at the equator the decrease coefficient of the neutron monitor is 0.67 for the first harmonic, whereas it drops to 0.29 for the second harmonic of the diurnal solar variation; yet, at 70°

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